

**Tetra Tech, Inc.**

4213 State Street, Suite 100  
 Santa Barbara, CA 93110-2847  
 VOICE (805) 681-3100 FAX (805) 681-3108

Project: **Vandenberg Air Force Base**  
 Log of Well No. **27-MW-10**

Location: **OU4, Site 27, approximately 20 ft south of  
 El Rancho Road and 500 ft west of unnamed canyon.**

Date Started: 8/20/96 Completed: 8/21/96

Logged By: R. J. Elliot Checked By: J. R. Steele, R.G.,  
 C.E.G., C.H.G.

Drilled By: T. Blakeboro, S/G Testing *J.R. Steele, R.G. #5963*

Drilling Equipment: CME 750, 8-inch & 10-inch HSA

Sampling Equipment: 2-inch I.D. Split Spoon

GS Elev.: 324.2 ft above MSL TD: 41.0 ft bgs

4" PVC Blank Casing: from 0 ft bgs to 19.5 ft bgs

0.01" Screening Casing: from 19.5 ft bgs to 39.5 ft bgs

Bentonite/Cement Grout: from 2 ft bgs to 14.8 ft bgs

Bentonite Transitional Seal: from 14.8 ft bgs to 17.5 ft bgs

2/12 Sand Filter Pack: from 17.5 ft bgs to 41 ft bgs

TOC Elev.: 327.31 ft above MSL

Depth (ft bgs)	MATERIAL DESCRIPTION	Material Symbol	Material Type	Well Construction	Sample	Blow Counts per 6"	Percent Recovery	PID (ppm) Amb/Smp	REMARKS
	<u>silty sand</u> , dark yellowish brown (10YR 4/4), fine grained, moderately graded, dry, medium dense, dune sand.		SM			1 3 6 8	100	0/0	Start drilling 0920.
	<u>sand</u> , yellowish brown (10YR 5/4), fine grained, poorly graded, rounded, medium dense, moist, some silt, with rust-stained laminations from 5.5 ft to 6.0 ft, dune sand.		SP			3 6 11 12	100		
5									
	dense.					14 17 20 24	100	0/5.5	
10									
						13 14 20 27	100	0/6.6	
15									
						13 15	100	0/0.6	
20									

23.7 ft bgs ▼ Groundwater depth during drilling

26.4 ft bgs ▼ Groundwater depth 9/19/96 after well development on: 8/28/96

TC Number: A208-09

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	very dense, moist to very moist.		SP			21 31			
25	dense, very moist to wet, few streaks of dark to black sand.					10 15 18 27	100	0/0	
30	very dense, wet.					8 22 34 50	100	0/0	
35						4 11 25 44	100	0/0	
40	very dark brown (10YR 2/2), black mottles from 40 ft to 41 ft.					4 13 29 47			TD 10-inch auger at 41 ft. TD 8-inch auger at 39 ft with sampler driven to 41 ft. End drilling 1110.
45									Well construction completed, 8/21/96.